

### **Request for Extension of Experimental STA**

HC2 Broadcasting Holdings, Inc. (“Applicant”) was granted special temporary authority (“STA”) to conduct experiments to determine the efficacy of a low power mobile network based upon the ATSC 3.0 broadcast transmission standard using a Distributed Transmission System.<sup>1</sup> For the reasons set forth below, the Applicant respectfully requests extension of the STA for an additional one-hundred eighty (180) days until August 28, 2023.

As outlined in Applicant’s initial request, incorporated herein by reference, the experimental network as proposed will operate as a 4G network and in time will evolve into a fully capable 5G network. Applicant believes that LPTV frequencies can be cellularized, paired with mobile use frequencies, and used to offer two-way connectivity, with an ultimate goal of providing a wide variety of 5G services.

Since September, construction of the facilities has been unavoidably delayed. The Applicant was only recently able to order the specialized equipment needed for the demonstration because of supply chain issues. The Applicant also was delayed in securing the tower space necessary to install the equipment. That said, the equipment has been ordered and the tower space is secured. Although Applicant is confident that the equipment will be in place within the next two months, it cannot be sure its experiments will be concluded by the March 1, 2023 expiration deadline. Accordingly, it seeks this extension.

Except for the equipment and installation delay the details of the experiment have not changed. The Applicant seeks to conduct an experiment using LPTV channels 30 (569.0 MHz)<sup>2</sup> and 36 (605.0 MHz)<sup>3</sup> in Fort Wayne, IN, and downlinks and paired with 1670-1675 MHz uplinks. The frequencies 1670-1675 MHz are licensed to OP LLC, a subsidiary of Crown Castle International Corp. (“Op LLC”) and currently leased from OP LLC by One Dot Six Corp., a subsidiary of Ligado Networks LLC (“One Dot Six”) for nationwide use pursuant to a long-term *de facto* transfer lease of FCC Call Sign WPYQ831. One Dot Six has consented to the use of those frequencies by Applicant for purposes of this experiment.

As detailed in the original STA request, the experiment will transmit on LPTV frequencies from the tower-mounted fixed transceivers. A limited number of (no more than three) mobile transceivers will receive on the LPTV frequencies and transmit on the 1670-1675 MHz uplinks within a radius of 5 km from each tower.

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<sup>1</sup> HC2 Broadcasting Holdings Inc., Call Sign WU9XEM, OET File No. 1307-EX-ST-2022.

<sup>2</sup> W30EH-D, Facility ID: 183651, Community of License: Ft. Wayne, IN

<sup>3</sup> WODP-LD, Facility ID: 183653, Community of License: Ft. Wayne, IN

Applicant will continue to provide a regular LPTV broadcast service in Ft. Wayne during the experiment. Applicant certifies that it will operate the facility in accordance with the technical parameters set forth in the accompanying engineering exhibits. As demonstrated in those exhibits, operation of the experimental network will not result in any harm to existing LPTV and full power broadcast stations or viewers. Applicant commits to cease operation if it is shown to cause harmful interference to existing facilities.

For purposes of this experiment, the stop-buzzer contact is:

Michael Voge, Director of Engineering Operations, 914-772-3345